

### All-in-one Touchscreen PC from Shuttle

The Shuttle X5020XA is an all-in-one PC boasting a 39.6cm (15.6-inch) touchscreen LCD powered by Intel's Atom D510 dual-core processor. It is fully configured with 2 GB of memory, a 250 GB hard disk drive and is delivered without operating system. Equipped with Intel's GMA 3150 onboard graphics, it provides generous performance for daily computing with internet and office applications. A webcam, built-in speakers, card reader, WLAN and other features leave nothing you could ask for. Have any applications start up quickly by just touching the screen for working most swiftly and conveniently.

#### Feature Highlight

All-in-one design	<ul style="list-style-type: none"> <li>Full featured stylish PC platform</li> <li>Small: 391 x 327 x 36 mm (WHL)</li> <li>Stand can also be used as a handle</li> <li>External, fanless power supply (40W)</li> </ul>
CPU & Chipset	<ul style="list-style-type: none"> <li>CPU: Intel ATOM D510 Dual Core Codename: Pineview-D (1,66 GHz)</li> <li>Chipset: NM10 (Platform Controller Hub)</li> </ul>
Storage	<ul style="list-style-type: none"> <li>2 GB DDR2-667 Memory</li> <li>250 GB SATA hard disk drive (2.5")</li> </ul>
Operating system	<ul style="list-style-type: none"> <li>Without operating system</li> <li>Compatible with Windows 7, Vista and XP</li> </ul>
Display & Graphics	<ul style="list-style-type: none"> <li>39.6cm (15.6") touchscreen (1366x768)</li> <li>Integrated graphics (GMA3150, DX9)</li> <li>VGA Video output (Extended Mode)</li> </ul>
Connectivity	<ul style="list-style-type: none"> <li>4x USB, Audio: Mic, Line-out</li> <li>LAN connector, Wireless LAN (draft-n)</li> <li>Legacy ports: 2x serial, 1x parallel</li> </ul>
Built-in	<ul style="list-style-type: none"> <li>4-in-1 card reader</li> <li>1.3 Megapixel webcam</li> <li>2x 2W speakers, Microphone</li> <li>100mm VESA mount capable</li> <li>Light bar at the bottom</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>40W, fanless, Energy Star 5 compliant</li> </ul>
Warranty	<ul style="list-style-type: none"> <li>24 months Pick-up-and-Return Service</li> </ul>

Intel  
Pineview-D

### Shuttle All-in-One PC X5020XA



Touchscreen



Dual Core



Fanless



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X5020XA (= X50X2A) White



Order No. PAC-X50V201

X5020XA (= X50X2A) Black



Order No. PAC-X50V202

## Shuttle X 50V2-Series – Product Overview (Europe)

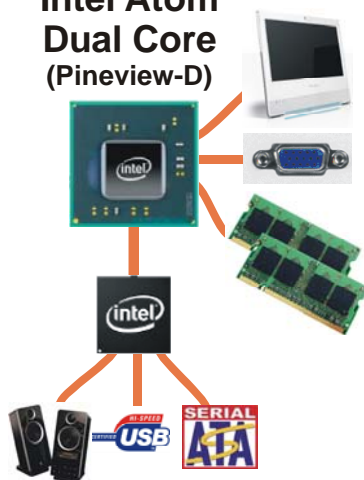
Name	Operating System	Hard disk	Memory	Ser/Par Port	Barcode Number
Barebone <b>X50V2</b>	None	None	None	Included as accessory	White: 811686003076 Black: 811686003083
				Built in	White: 811686003113 Black: 811686003090
System <b>X 5020T</b>	Configurable	Configurable	Configurable	Built in	White: - Black: -
System <b>X 5020TA</b>	Windows 7 Home Premium	250 GB	2 GB	Built in	White: 4046047102068 Black: 4046047102075
System <b>X50X2A = X5020XA</b>	None	250 GB	2 GB	Built in	White (old): 4046047102082 White (new): <b>811686003205</b> Black (old): 4046047102099 Black (new): <b>811686007968</b>
System <b>X502VA</b>	Linux openSuSe	250 GB	2 GB	Built in	White: 4046047102105 Black: 4046047102112

## Shuttle X5020XA - Special Product Features



## All applications at your fingertips

The innovative touchscreen technology delivers the simplest operation possible and makes the screen the centre of action. Its high-quality design lets you control the whole range of multimedia - music, movies, video playback and web browsers start by just touching the screen.

Intel Atom  
Dual Core  
(Pineview-D)

## New Atom processor integrates the graphics core

Shuttle X5020XA is equipped with Intel's new Atom processor, codenamed Pineview. It brings both the memory controller and graphics core on-die which helps to reduce the thermal output and memory latency. The CPU is connected to the Southbridge NM10, codenamed Tiger Point.

## Dual Core. Do more.

The vast majority of the existing netbooks and all-in-one PCs with an Intel Atom CPU use the Single Core version. In contrast to this, Shuttle's all-in-one PC stands out from the crowd with its embedded Intel Atom D510 Dual Core processor, which is boosting the productivity of the PC system, particularly with regards to multithreaded applications.



## Power saving

The new X5020XA version equipped with Intel Atom D510 Dual-Core processor and eco-friendly ENERGY STAR 5.0 qualified power adapter consumes about 22 Watt in full load mode, which is approximately half as much as with the previous Atom platform with Atom 330 processor and 945GC chipset (X 5000T).



### VGA Port

This VGA port can be used to connect a secondary external LCD display or beamer to the PC.



### All-in-one PC

Your complete PC system with many components already built in comes in just one single device! This includes the webcam, microphone, mainboard, display, touchscreen input interface, Wireless LAN module and speakers. Saves you more space, looks simply stylish, less wiring.



### Built-In Webcam and Microphone

The built-in 1.3 mega pixel webcam and microphone makes it easy to take pictures or stream live images across the Internet – and connect in real-time with friends, family, and colleagues.



### Slim and chic

Designed as space-savers, this 15.6 inch all-in-one desktop PC only measures 3.6cm in depth.



### Fanless - as quiet as 22dBA

The Shuttle X5020XA features a cooling system that combines an integrated heat-sink with thermal pads - and removes the fan. As an added benefit, it's not only quiet but also dust-free.



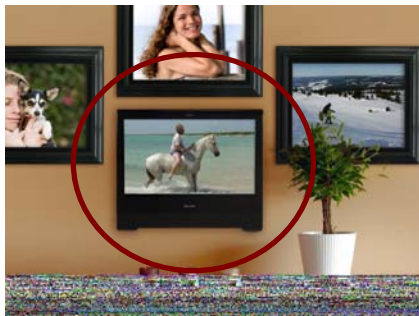
### Carrying handle

Cleverly, the stand can be pulled up to serve as a handle - easy to move and light to carry with one hand.



### Kensington Lock

This is a small, metal-reinforced hole as part of an anti-theft system. (The lock-and-cable apparatus is not included.)



### VESA mounting

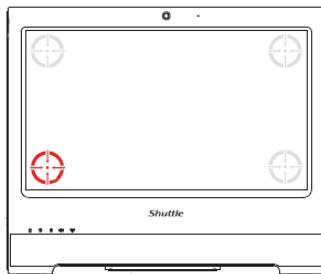
The stand on the rear can easily be removed unveiling four VESA mounting screw holes that can be used for mounting arms and other mounting devices from a variety of manufacturers.



### Control AP Software

Click the „ControlAP“-Button and you can configure the following items with your fingers on the touchscreen:

- Screen brightness
- Light bar brightness
- Wireless LAN On/Off
- Web camera On/Off
- Configuration of LCD and external VGA screen



### 4 Point Touch Screen Calibration

The Shuttle X5020XA features a precise touch screen input device. This can easily be calibrated just by pointing four times with the stylus pen on the screen. With this four point calibration, you can use demanding graphical user interfaces (GUI) that require precise cursor control to properly activate small icons, buttons, scroll bars, etc.



### Serial and parallel legacy ports

Legacy ports are still a requirement for certain industrial applications. Thus, X5020XA provides one parallel and two serial ports at the back panel. (European version)



### Shuttle X5020XA Overview (Connectors, buttons, etc.)



- 1 Touchscreen LCD display
- 2 Webcam
- 3 Microphone
- 4 Power on LED
- 5 Hard disk LED
- 6 Wireless LAN LED (Wifi)
- 7 Stereo speakers
- 8 Light bar
- 9 Card reader
- 10 4 USB connectors
- 11 LAN connector
- 12 Microphone input
- 13 Audio line out (head phone)
- 14 VGA video output
- 15 Stand (handle)
- 16 Power on button
- 17 Stylus pen with holder
- 18 DC-input for power supply
- 19 Kensington lock
- 20 Vesa mount
- 21 2x COM, 1x Par. Ports



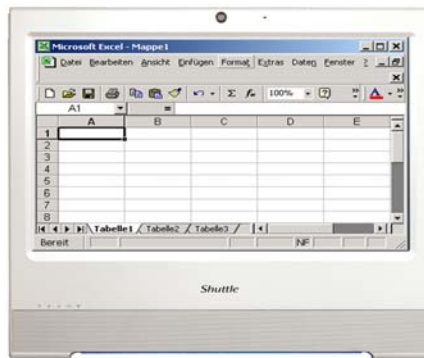
## Shuttle X5020XA – Range of Applications



### Entertainment

Music, Movies,  
Photo gallery, TV\*

\* ) TV tuner USB stick  
required



### Work

Banking, Shopping,  
Office, Stock trading



### Control

Surveillance,  
Home Automation,  
Control device



### P.O.S.

Point of sales



### Education

In schools, at home,  
for children and adults



### Communication

Email, VoIP, Messenger,  
Blog, Video Conferencing



### Digital Signage

Visual advertising,  
entertainment, displaying  
information in public areas

## Shuttle X5020XA – Specifications

<b>Chassis</b>	Color: white or black Dimensions: 391.3 x 327 x 36 mm (WxHxL) 100mm VESA mount capable Mounting hole for Kensington lock Light bar at the bottom
<b>Operating system</b>	This system comes without operating system. It is compatible with Windows XP, Windows Vista and Windows 7
<b>Touch-screen</b>	Touchscreen function support fingertip input Resistance and single touch technology Including stylus pen for the touchscreen
<b>39.6cm (15.6-inch) display</b>	39.6cm/15.6" LCD display, ratio: 16:9 wide screen panel Resolution: 1366x768 = 1.05 Megapixels Adjustable Backlight: CCFL (Cold cathode fluorescent lamp)
<b>Processor</b>	Intel Dual Core Atom processor D510 (Codename: Pineview-D) 45nm manufacturing process, FCBGA559 Intel Hyper-Threading technology: 2-threads per core Intel 64 architecture, Core clock: 1.66GHz, L2 Cache: 1024kB, TDP: max. 15W Integrated North Bridge with controller for memory and graphics
<b>South bridge</b>	Intel® NM10 Platform Controller Hub (PCH), Codename: Tiger Point
<b>BIOS</b>	AMI BIOS in a 8Mb Flash ROM supports PnP, ACPI 3.0 Supports external USB flash memory card boot up
<b>Memory</b>	2 GB DDR2-667 SO-DIMM memory
<b>Hard disk drives</b>	250 GB Serial ATA hard disk in 6.35cm/2.5" format
<b>Card reader</b>	Integrated multi-format 4-in-1 card reader (USB 2.0) Supports the memory card types: SD, MMC, MS and MS pro
<b>Webcam</b>	Integrated Webcam module with 1.3 Megapixel resolution
<b>Audio Microphone Speakers</b>	IDT92HD81 Audio Codec with Azalia support, two analog audio connectors (3.5mm): 1) Line out (head phone) 2) microphone input Front panel with integrated Electret Condenser Microphone and 2x 2W speakers

<i>Integrated graphics</i>	<p>The Graphics Processing Unit (GPU) is integrated into the processor</p> <p>Intel GMA 3150, 400MHz render clock frequency</p> <p>Intel Dynamic Video Memory Technology 4.0 (DVMT 4.0)</p> <p>Share system memory max. 256MB</p> <p>Supports DirectX 9 and 2D/3D instruction set, Pixel Shader 2.0</p> <p>MPEG2 hardware acceleration</p> <p>Intel Clear Video / ProcAmp technology allows user adjustment of hue, saturation, brightness and contrast</p> <p>Two display ports:</p> <ul style="list-style-type: none"> <li>- Digital LVDS channel supports up to 1366*768, 18bpp resolution</li> <li>- Analog RGB supports up to 2048*1536, 60Hz resolution</li> <li>- Supports Extended Desktop Mode and Clone Mode</li> </ul>
<i>LAN</i>	<p>JMicron JMC261 single-chip PCIe Fast Ethernet combo Card Reader Host controller</p> <p>IEEE 802.3u 100Base-T specification compliant</p> <p>Supports 10/100 MBit/s operation</p> <p>Supports S3 Wake-on-LAN (WOL) feature</p>
<i>Wireless LAN (Wifi)</i>	<p>Supports 802.11 b/g and draft-n</p> <p>Mini PCIe x1 card</p>
<i>Connectors</i>	<p>VGA connector (D-Sub 15 pol., analog)</p> <p>4x USB 2.0 (2x left side, 2x right side)</p> <p>Netzwerk (RJ45)</p> <p>Audio Line-out (head phone)</p> <p>Microphone input</p> <p>2x Serial ports, Parallel port</p> <p>DC input for power supply</p>
<i>LED's and buttons</i>	<p>Power button</p> <p>Power LED (blue)</p> <p>Hard disk LED (orange)</p> <p>Wireless-LAN / Wifi LED (green)</p>
<i>Power supply</i>	<p>Externes 40W Netzteil (lüfterlos), Abmessungen: 27 x 37 x 90 mm</p> <p>Energy Star 5 konform</p> <p>Eingang (Wechselspannung): 100-240V AC, 50-60Hz</p> <p>Ausgang: 19V DC, max. 2,1A</p>
<i>Certifications</i>	<p>Safety certifications: TÜV, CB, BSMI</p> <p>EMI certifications: CE, FCC, BSMI, R&amp;TT</p> <p>Other certifications: RoHS, Energy Star 5</p>
<i>Environment</i>	<p>Operating temperature: 0~35°C, Humidity: 0~60%</p>
<i>Warranty</i>	<p>24 months Pick-up-and-Return Service (PUR)</p>

\*) System resources and hardware (such as PCI and PCI Express) require physical memory address locations that can reduce available addressable system memory. This could result in a reduction of as much as 1 GB or more of physical addressable memory being available to the operation system and applications, depending on the system configuration and operation system.